

This document contains supplemental information referenced by the European Rolling Plan for ICT Standardisation.

IEEE Standards Activities in the eLearning Space

Overview

The IEEE Learning Technology Standards Committee (LTSC) is chartered by the IEEE Computer Society Standards Activity Board to develop globally recognized technical standards, recommended practices, and guides for learning technology. The IEEE LTSC coordinates with other organizations, both formally and informally, that produce specifications and standards for learning technologies.

The IEEE LTSC has activities in several eLearning areas, including Digital Rights Expression Languages, Computer Managed Instruction, Learning Object Metadata, Resource Aggregation Models for Learning, Education and Training, and Competency Data Standards.

In addition to IEEE's eLearning standards activities, IEEE has other programs relevant to the EU eSkills strategy:

- [IEEE Blended Learning Program](#)
- [IEEE Standards Education](#)
- [IEEE Building Wireless Community Networks](#)

Relevant Standards Activities

Approved Standards*

- [IEEE 1484.4-2007](#), IEEE Recommended Practice for Digital Rights Expression Languages (DREs) Suitable for eLearning Technologies
- [IEEE 1484.11.1-2004 \(R2010\)](#), IEEE Standard for Learning Technology-- Data Model for Content Object Communication
- [IEEE 1484.11.2-2003 \(R2009\)](#), IEEE Standard for Learning Technology-- ECMAScript Application Programming Interface for Content to Runtime Services Communication
- [IEEE 1484.11.3-2005](#), IEEE Standard for Learning Technology Extensible Markup Language (XML) Schema Binding for Data Model for Content Object Communication
- [IEEE 1484.12.1-2002 \(R2009\)](#), IEEE Standard for Learning Object Metadata [And IEEE Std 1484.12.1-2002/Cor 1-2011]
- [IEEE 1484.12.3-2005](#), IEEE Standard for Extensible Markup Language (XML) Schema Definition Language Binding for Learning Object Metadata
- [IEEE 1484.13.1-2012](#), IEEE Standard for Learning Technology-- Conceptual Model for Resource Aggregation for Learning, Education, and Training
- [IEEE 1484.13.2-2013](#), IEEE Recommended Practice for Learning Technology--Metadata Encoding and Transmission Standard (METS) Mapping to the Conceptual Model for Resource Aggregation

- [IEEE 1484.13.3-2014](#), IEEE Recommended Practice for Learning Technology--ISO 21000-2:2005 Information Technology--Multimedia Framework (MPEG-21)--Part 2: Digital Item Declaration Mapping to the Conceptual Model for Resource Aggregation
- [IEEE 1484.13.4-2016](#), IEEE Recommended Practice for Learning Technology--IMS Content Packaging Information Model (CP) Version 1.2 - Mapping to the Conceptual Model for Resource Aggregation
- [IEEE 1484.13.5-2013](#), IEEE Recommended Practice for Learning Technology--IETF RFC 4287--Atom Syndication Format--Mapping to the Conceptual Model for Resource Aggregation
- [IEEE 1484.13.6-2015](#), IEEE Recommended Practice for Learning Technology--Open Archives Initiative Object Reuse and Exchange Abstract Model (OAI-ORE)--Mapping to the Conceptual Model for Resource Aggregation
- [IEEE 1484.20.1-2007](#), IEEE Standard for Learning Technology-Data Model for Reusable Competency Definitions

Current New or Revision Projects*

- [IEEE P1484.11.3](#), Standard for Learning Technology Extensible Markup Language (XML) Schema Binding for Data Model for Content Object Communication (Revision)
- [IEEE P1484.12.3](#), Standard for Extensible Markup Language (XML) Schema Definition Language Binding for Learning Object Metadata (Revision)
- [IEEE P1484.21](#), Task Model for Project-based Learning (New)
- [IEEE P1589](#), Standard for an Augmented Reality Learning Experience Model (New)
- [P3652.1](#), IEEE Draft Guide for Architectural Framework and Application of Federated Machine Learning
- [IEEE P7004](#), Standard for Child and Student Data Governance (New)
- [IEEE P7919.1](#), Requirements for eReaders to Support Learning Applications
- [IEEE P9274.1.1](#), JavaScript Object Notation (JSON) Data Model Format and Representational State Transfer (RESTful) Web Service for Learner Experience Data Tracking and Access

*Draft standards projects, once approved, are often revised and/or used as the base for new projects. The status of these projects is updated periodically. For the most up-to-date status, please see the following link:

<<https://standards.ieee.org/project/index.html>>

